

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A communications network, comprising:

a wireless link of the network;

a server computer connected to the wireless link;

a first device communicatively connected via the wireless link to the server computer, the first client device having a first location;

a second device communicatively connected to the server computer, the second client device having a second location;

a first identifier ascertainable to the server computer corresponding to the first location, the first client device, selectively on permission ~~direction~~ of the first device, communicates the first identifier to the server computer over the wireless link;

a second identifier ascertainable to the server computer corresponding to the second location, the second device, selectively on permission ~~direction~~ of the second device, communicates the second identifier to the server computer;

wherein the server computer selectively, based on the first location and the second location, ~~, if so directed by the first device and the second device, permits and intermediates~~ enables communications between the first client device at the first location over the wireless link and the second client device at the second location, if the first device and the second device have permitted said communications.

Claim 2 (currently amended): The communications network of claim 1, further comprising a detector connected to the first client device, for detecting a first location of the first client device and a second location of the second client device.

Claim 3 (currently amended): The communications network of claim 2, wherein the detector is selected from the group consisting of: a logical determiner of the server computer, a hardware of the server computer, a logical determiner of the first device, a hardware of the first device, and a combination of any of these.

Claim 4 (currently amended): The communications network of claim 3, wherein the first client device communicates an indicator of the first location to the server computer over the wireless link, further comprising:

a relator, operable in conjunction with receipt of the first identifier by the server computer, for correlating the first identifier particularly to the first client device, for selecting whether the server computer is capable of enabling ~~will intermediate~~ communications between the first device and the second device, and ~~to allow, if so directed by the second device, and~~ enable communications between the first device at the first location communicatively connected over the wireless link to the server computer and the second device at the second location communicatively connected to the server computer if the first device and the second device have permitted said communications.

Claim 5 (previously presented): The communications network of claim 2, wherein the network is the Internet.

Claim 6 (previously presented): The communications network of claim 1, wherein the wireless link is a cellular packetized data system.

Claim 7 (previously presented): The communications network of claim 1, wherein the wireless link is a CDPD system.

Claim 8 (currently amended): The communications network of claim 1, further comprising a database communicatively connected to the server computer, for relating the first location to the first device and the second location to the second client device and for determining whether to enable ~~intermediate~~ communications, via the server computer, between the first device at the first location over the wireless link and the second device at the second location.

Claim 9 (currently amended): A method of ~~wireless~~ communications between a first wireless client device and a second client device, wherein the ~~a~~ first wireless client device has a first location and the ~~a~~ second client device has a second location, comprising the steps of:

deriving a first information relational to the first location and the first client device, if the first wireless client device is communicatively connected to a communications server;

deriving a second information relational to the second location and the second

client device, if the second client device is communicatively connected to the communications server;

~~enabling intermediating communications, by virtue of the first information and the second information,~~ between the first client device and the second client device via the server communicatively connected to the first wireless client device, if the ~~communications server favorably recognizes the first information and the first~~ wireless client device permits the communications, on the one hand, and the second ~~information and the second client device, on the other hand~~ permits the communications.

Claim 10 (currently amended): The method of claim 9, wherein the step of deriving the first information comprises the steps of:

performing a look-up in a relational database to determine correspondence of the first information to the second information; and

making known the look-up result to at least one of the first wireless client device and the second client device as prelude to the step of enabling.

Claim 11 (canceled).

Claim 12 (canceled).

Claim 13 (withdrawn): A co-processor for use with a computing device, comprising:
a digital signal processor;

a connector for communicatively connecting the co-processor with the computing device; and

a program of the digital signal processor for performing an optimized wireless communication.

Claim 14 (withdrawn): The co-processor of claim 13, wherein:

the computing device includes a plug-in socket; and

the connector is a plug compatible with a plug-in socket of the computing device.

Claim 15 (withdrawn): The co-processor of claim 13, further comprising:

a wireless communications modem; and

wherein the digital signal processor is embedded in the wireless communications modem connectible to the connector.

Claim 16 (withdrawn): The co-processor of claim 13, further comprising:

a communications bus of the computing device; and

wherein the plug-in socket of the computing device connects to the bus, so that the co-processor can communicate with the communications bus through the plug-in socket.

Claim 17 (withdrawn): The co-processor of claim 13, wherein the co-processor performs an operation selected from the group consisting of: encryption, decryption, communications, protocol handling, and location positioning.

Claim 18 (withdrawn): The co-processor of claim 13, wherein the co-processor enables communications over a wireless channel, further comprising:

 a standard communications protocol for communicating between the co-processor and the computing device;

 a specialized communications protocol for communicating between the co-processor over the wireless channel; and

 wherein the co-processor includes an interface between a standard communications protocol and a specialized communications protocol.

Claim 19 (withdrawn): A method of operation of a co-processor, the co-processor being connected to a computing device and the co-processor including a digital signal processor, comprising the steps of:

 receiving a communication formatted according to a specialized communications protocol; and

 processing the communication and formatting the communication according to a standard communications protocol.

Claim 20 (withdrawn): The method of claim 19, wherein the communication is received by the co-processor from a wireless channel.

Claim 21 (withdrawn): The method of claim 20, wherein the co-processor communicates the communication in the standard communications format to the computing device.

Claim 22 (withdrawn): The method of claim 19, further comprising the steps of:
 sending a communication formatted according to a specialized communications protocol; and
 processing the communication formatted as a standard communications protocol to format the communication according the specialized communications protocol, prior to the step of sending.

Claim 23 (withdrawn): The method of claim 22, wherein the co-processor communicates with the computing device according to the standard communications protocol and communicates over a wireless channel according the specialized communications protocol.

Claim 24 (withdrawn): The method of claim 23, wherein the standard communications protocol is TCP/IP.

Claim 25 (withdrawn): The method of claim 23, wherein the specialized communications protocol is an optimized protocol for communicating over the wireless channel and conforms to the OSI reference model.

Claim 26 (withdrawn): The method of claim 25, wherein the method is performed by an embedded system within a wireless modem of the computing device.

Claim 27 (withdrawn): A method of communicating different data types over a wireless channel, comprising the steps of:

receiving data files of different data types;
parsing the data files to determine the respective data types;
prioritizing the data files according to a prioritization scheme for the different data types.

Claim 28 (withdrawn): The method of claim 27, further comprising the step of:
transmitting the data files in accordance with the prioritization of the prioritization scheme.

Claim 29 (withdrawn): The method of claim 28, wherein the step of receiving is performed by a computer.

Claim 30 (withdrawn): The method of claim 28, wherein the step of transmitting is performed by a computer.

Claim 31 (withdrawn): The method of claim 30, wherein a wireless channel is employed in the step selected from the group consisting of: transmitting, receiving, and both transmitting and receiving.

Claim 32 (withdrawn): The method of claim 31, wherein the computing device is a wireless ASP server computer.

Claim 33 (withdrawn): The method of claim 32, wherein the wireless ASP server computer communicates over the wireless channel with a client device.

Claim 34 (withdrawn): The method of claim 33, wherein the client device also communicates with the wireless ASP server computer over the wireless channel and performs the steps of:

 receiving data files of different data types;
 parsing the data files to determine the respective data types;
 prioritizing the data files according to a prioritization scheme for the different data types; and
 transmitting the data files in accordance with the prioritization of the prioritization scheme.

Claim 35 (withdrawn): The method of claim 34, wherein the different data types include data types selected from the group consisting of: text data, gif, jpg, html, and xml.

Claim 36 (withdrawn): A method of operation of a wireless ASP server computer, comprising the steps of:

receiving communications over a wireless channel, the communications comprised of more than one data type;
parsing the more than one data type;
prioritizing the more than one data type; and
processing the more than one data type according to a select prioritization scheme for the more than one data type.

Claim 37 (withdrawn): The method of claim 36, wherein the step of processing includes transmitting the more than one data type in sequence according to the select prioritization scheme.

Claim 38 (withdrawn): The method of claim 36, wherein the step of processing also includes other processing steps peculiar to the more than one data type.

Claim 39 (withdrawn): The method of claim 37, wherein the other processing steps are selected from the group consisting of: discarding at least one of the more than one data type, sequential ordering of the more than one data type, and on the fly prioritization according to then-existing conditions and constraints of the wireless channel.

Claim 40 (withdrawn): The method of claim 36, wherein the steps of receiving and transmitting are each performed with the more than one data type as pursuant to a specialized communications protocol for the wireless channel.

Claim 41 (withdrawn): The method of claim 38, wherein the specialized communications protocol is based on an OSI reference model.

Claim 42 (withdrawn): A communications device, comprising:
 a protocol dictionary.

Claim 43 (withdrawn): The device of claim 42, wherein the protocol dictionary includes a relational database.

Claim 44 (withdrawn): The device of claim 43, wherein the relational database maintains data relevant to a specialized wireless communications protocol.

Claim 45 (withdrawn): The device of claim 44, wherein the data maintained by the relational database is selected from the group consisting of: commands, instructions, and other information.

Claim 46 (withdrawn): The device of claim 44, further comprising:
 a wireless communications channel;
 a server device communicatively connected with the device over the wireless channel; and
 wherein the device is a client device that communicates over the wireless channel with the server device.

Claim 47 (withdrawn): The device of claim 44, further comprising:

 a wireless communications channel;

 a client device communicatively connected with the device over the wireless
channel; and

 wherein the device is a server device that communicates over the wireless channel
with the client device.

Claim 48 (withdrawn): The device of claim 47, wherein the relational database of
the protocol dictionary maintains the same data on the client device and the server device.

Claim 49 (withdrawn): The device of claim 47, further comprising:

 a synchronizer for syncing the data of the protocol dictionary of the server device
with the data of the protocol dictionary of the client device.

Claim 50 (withdrawn): The device of claim 49, wherein the device acts as a master
to the client device, with respect to synchronization.

Claim 51 (withdrawn): The device of claim 49, wherein the device acts as a slave
to client device, with respect to synchronization.

Claim 52 (withdrawn): The device of claim 43, further comprising:

 a dynamic protocol dictionary generator.

Claim 53 (withdrawn): The device of claim 52, further comprising:

 a wireless communications channel communicatively connected to the device;

and

 wherein the dynamic protocol dictionary generator processes, in real time, in order to derive a dictionary element for the relational database, a data selected from the group consisting of: user specified dictionary element, algorithmically derived dictionary element based on repeatedly communicated data, and by algorithmically derived dictionary element based on at least one state of the wireless communications channel.

Claim 54 (withdrawn): A method of wireless communications, comprising the steps of:

 generating a protocol dictionary.

Claim 55 (withdrawn): The method of claim 54, wherein the protocol dictionary includes a relational database.

Claim 56 (withdrawn): The method of claim 55, wherein the step of generating is performed on a device capable of communications over a wireless channel.

Claim 57 (withdrawn): The method of claim 56, wherein a data maintained in the relational database is elected from the group consisting of: user-specified dictionary element, algorithmically derived dictionary element based on repeatedly communicated data, and by

algorithmically derived dictionary element based on at least one state of the wireless communications channel.

Claim 58 (withdrawn): The method of claim 57, further comprising the steps of:
 synchronizing the data maintained in the relational database of the dynamic
protocol dictionary with a second device capable of wireless communications with the
device.

Claim 59 (withdrawn): The method of claim 58, wherein the device is a server
computer and the second device is a client computer, the server computer and the client
computer communicatively connected over a wireless communications channel.

Claim 60 (withdrawn): The method of claim 59, further comprising the steps of:
communicating between the server computer and the client computer over the wireless
communications channel according to a specialized wireless communications protocol based on
the OSI reference model.

Claim 61 (withdrawn): A first communications device, comprising:
 a first cache file; and
 a first synchronizer connected to the first cache file.

Claim 62 (withdrawn): The device of claim 61, further comprising:

a second communications device;

a data of the first cache file;

wherein the data is synchronized by the synchronizer between the first cache file and the second communications device.

Claim 63 (withdrawn): The device of claim 62, further comprising:

a second cache file;

wherein the data is synchronized by the synchronizer between the first cache file and the second cache file.

Claim 64 (withdrawn): The device of claim 63, wherein the first cache file is a memory included in the first communications device and the second cache file is a memory included in the second communications device.

Claim 65 (withdrawn): The device of claim 64, wherein the synchronizer comprises:

a wireless communicator for communicating a cache state from the first communications device to the second communications device, the second cache is modified by the second communications device to account for the cache state and thereby synchronize the first cache and the second cache.

Claim 66 (withdrawn): The device of claim 65, wherein the wireless communicator is a wireless modem of the first communications device.

Claim 67 (withdrawn): The device of claim 66, wherein communications from the first communications device to the second communications device of the cache state are carried over the wireless communications channel.

Claim 68 (withdrawn): The device of claim 67, wherein the communications of the cache state over the wireless communications channel conform to a specialized wireless protocol conforming to an OSI reference model.

Claim 69 (withdrawn): A method of synchronizing, comprising the steps of:
 saving a cache state at a first communications device to a first cache;
 communicating the cache state by the first communications device to a second communications device; and
 saving the cache state at the second communications device to a second cache.

Claim 70 (withdrawn): The method of claim 69, wherein the step of communicating is performed according to a specialized wireless protocol communicated over a wireless channel communicatively connected to the first communications device and the second communications device.

Claim 71 (withdrawn): The method of claim 70, wherein the specialized wireless protocol is based on an OSI reference model.

Claim 72 (withdrawn): The method of claim 70, wherein the first communications device is an ASP server computer and the second communications device is a wireless client device.

Claim 73 (currently amended): The communications network of claim 1, further comprising:

a specialized ~~OSI-IP communications~~ protocol for communications over the wireless link, for wireless communications between the server computer and the first device;

wherein ~~the server computer must intermediate the~~ communications between the first device and the second device occur through the server because of the specialized ~~OSI-IP communications~~ protocol of communications of the first device with the server.

Claim 74 (previously presented): The communications network of claim 1, wherein the first location and the second location, respectively, are each maintained by the server computer in confidence to the second device and the first device, respectively.

Claim 75 (currently amended): The communications network of claim 74, wherein the first device and the second device communicate to the other the first location and the second location, respectively, only if permitted ~~instructed~~ to do so by the first device and the second device, respectively.

Claim 76 (currently amended): The method of claim 9, further comprising the steps of:

communicating over the wireless link, for wireless communications between the server ~~logical switch~~ and the first wireless client device, by a specialized ~~IP~~ communications protocol ~~in OSI~~;

~~intermediating wherein~~ communications between the first wireless client device and the second client device ~~by the logical switch~~ occur through the server, ~~because of the~~ via a specialized IP communications protocol in OSI of communications of the first wireless client device and the server.

Claim 77 (currently amended): The method of claim 9, further comprising the step of:

maintaining in confidence, by the server ~~logical switch~~, the first location and the second location, respectively, to the second client device and the first wireless client device, respectively.

Claim 78 (currently amended): The method of claim 77, further comprising the steps of:

instructing by the first wireless client device whether to make available to the second client device at least certain of the first information;

instructing by the second client device whether to make available to the first wireless client device at least certain of the second information;

communicating by the server ~~logical switch~~ to the second client device and the first wireless client device, respectively, only such of the first information and the second information, respectively, as directed in the respective steps of instructing.